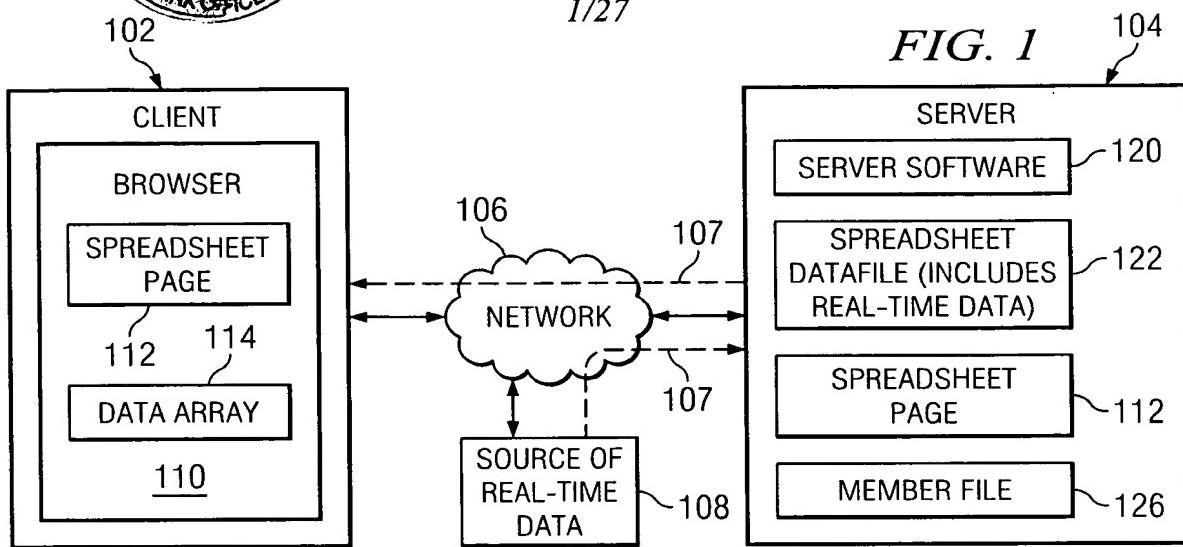




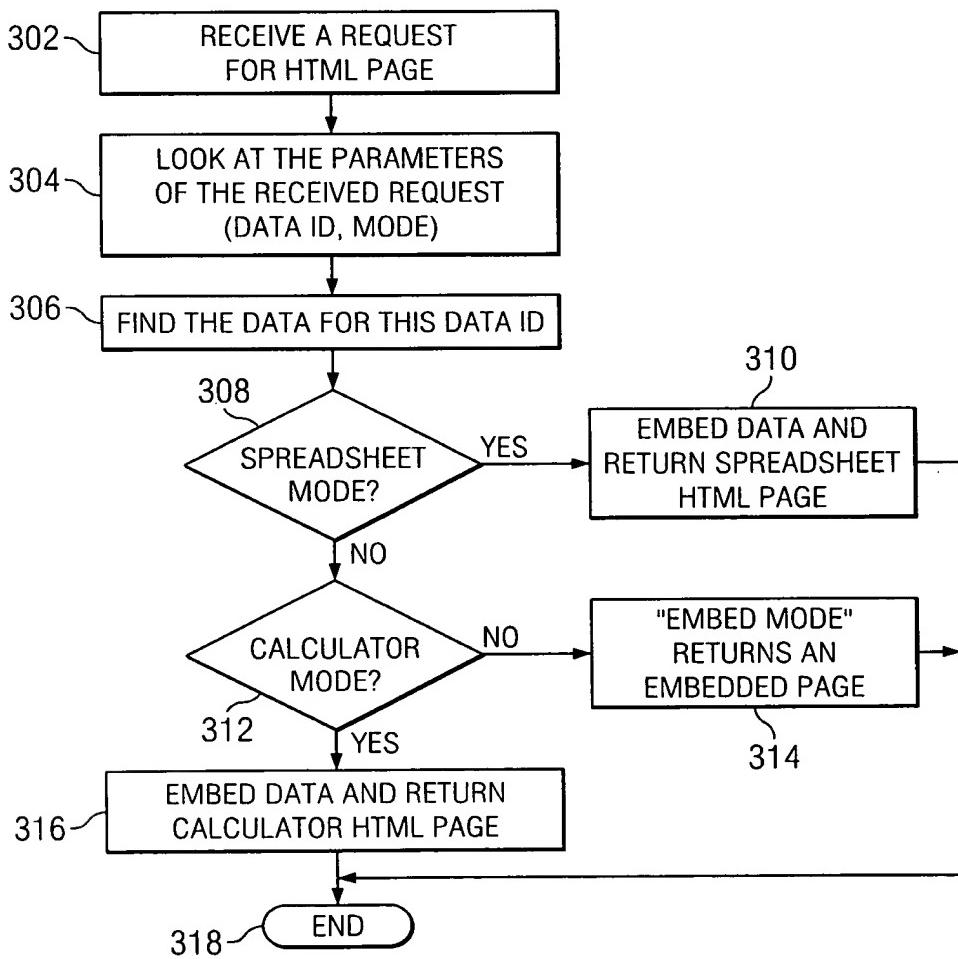
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**FIG. 3**

SERVER



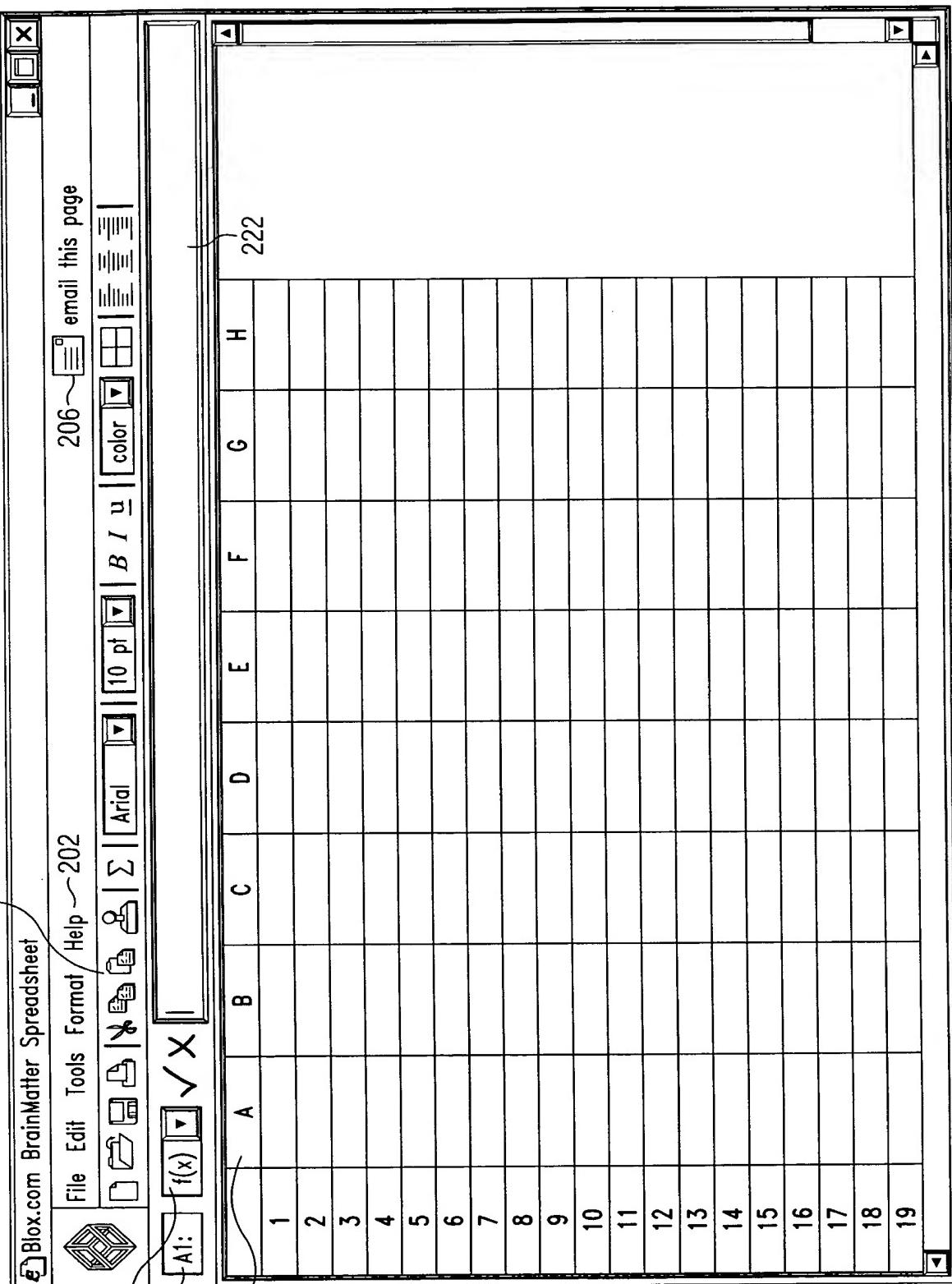
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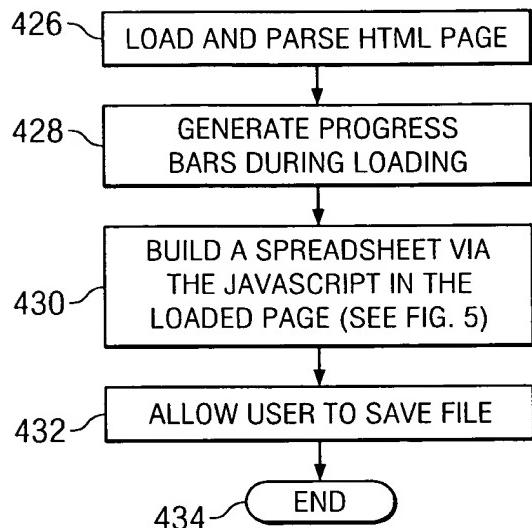
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FIG. 2

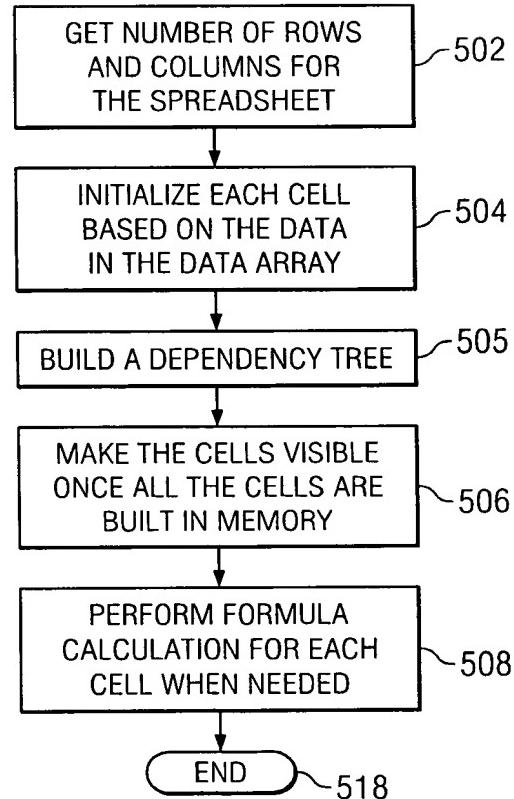


**FIG. 4**

## BROWSER

**FIG. 5**

## BROWSER, DISPLAYING SPREADSHEET

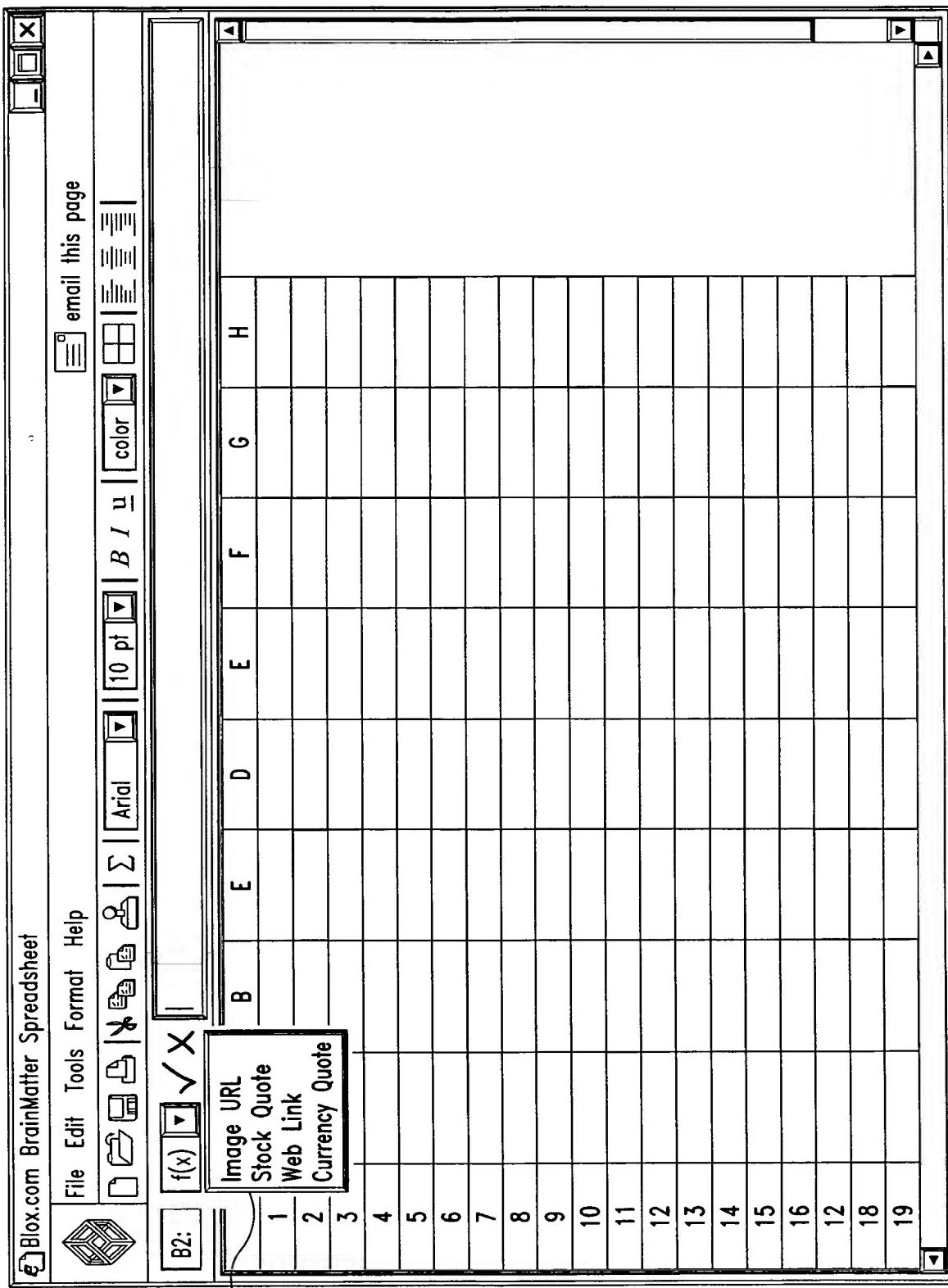


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FIG. 6

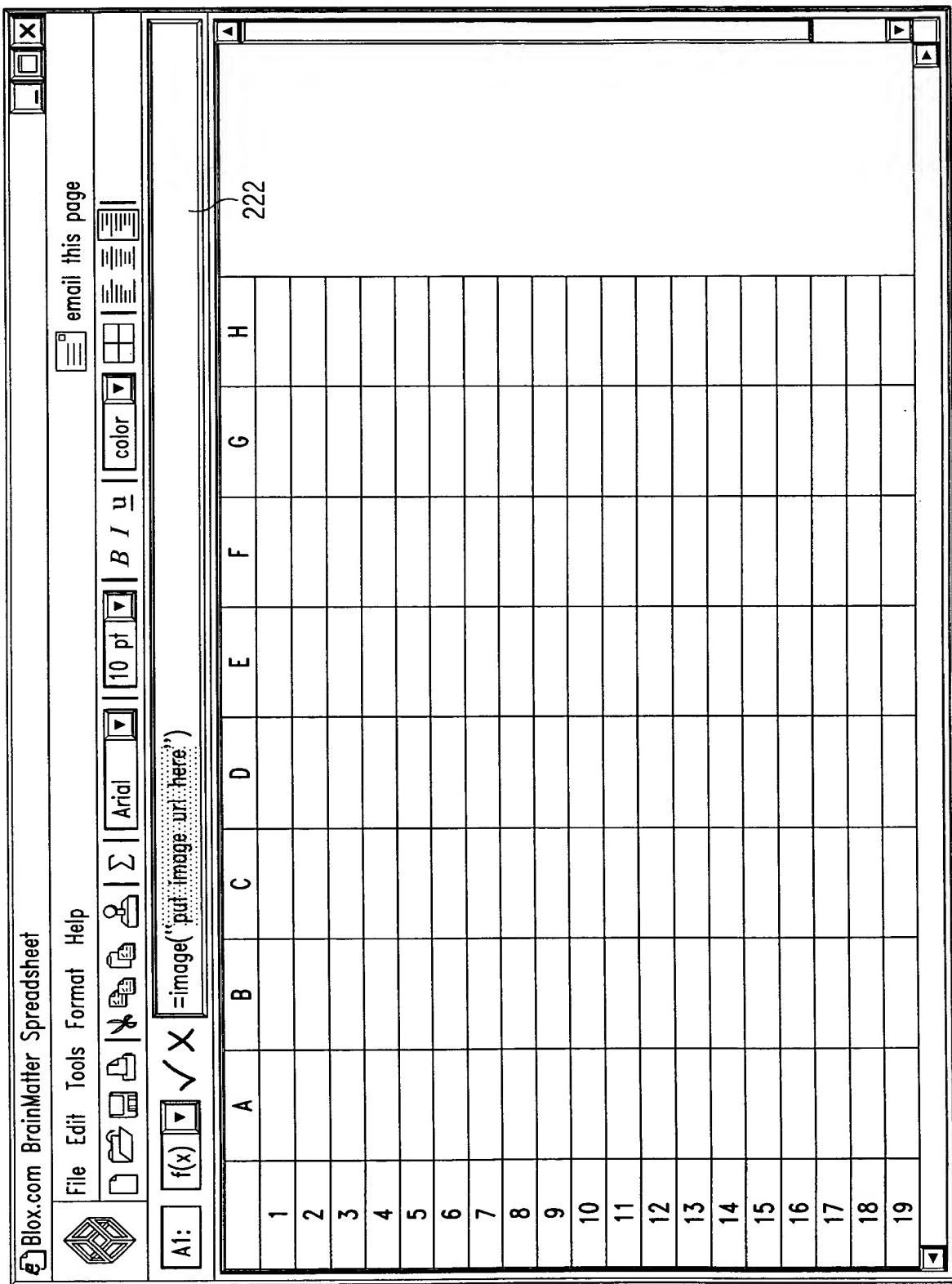


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FIG. 7a

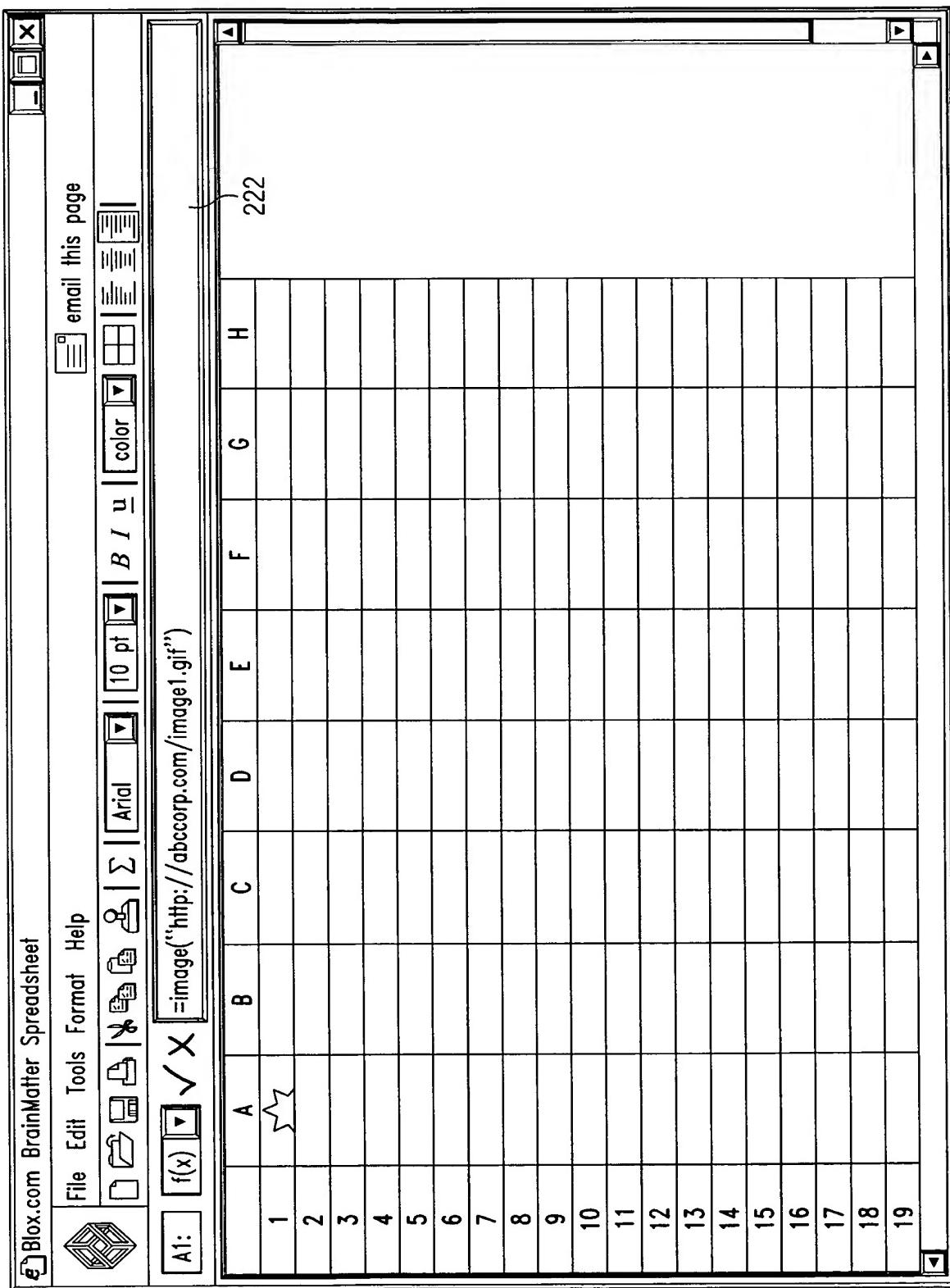


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FIG. 7b

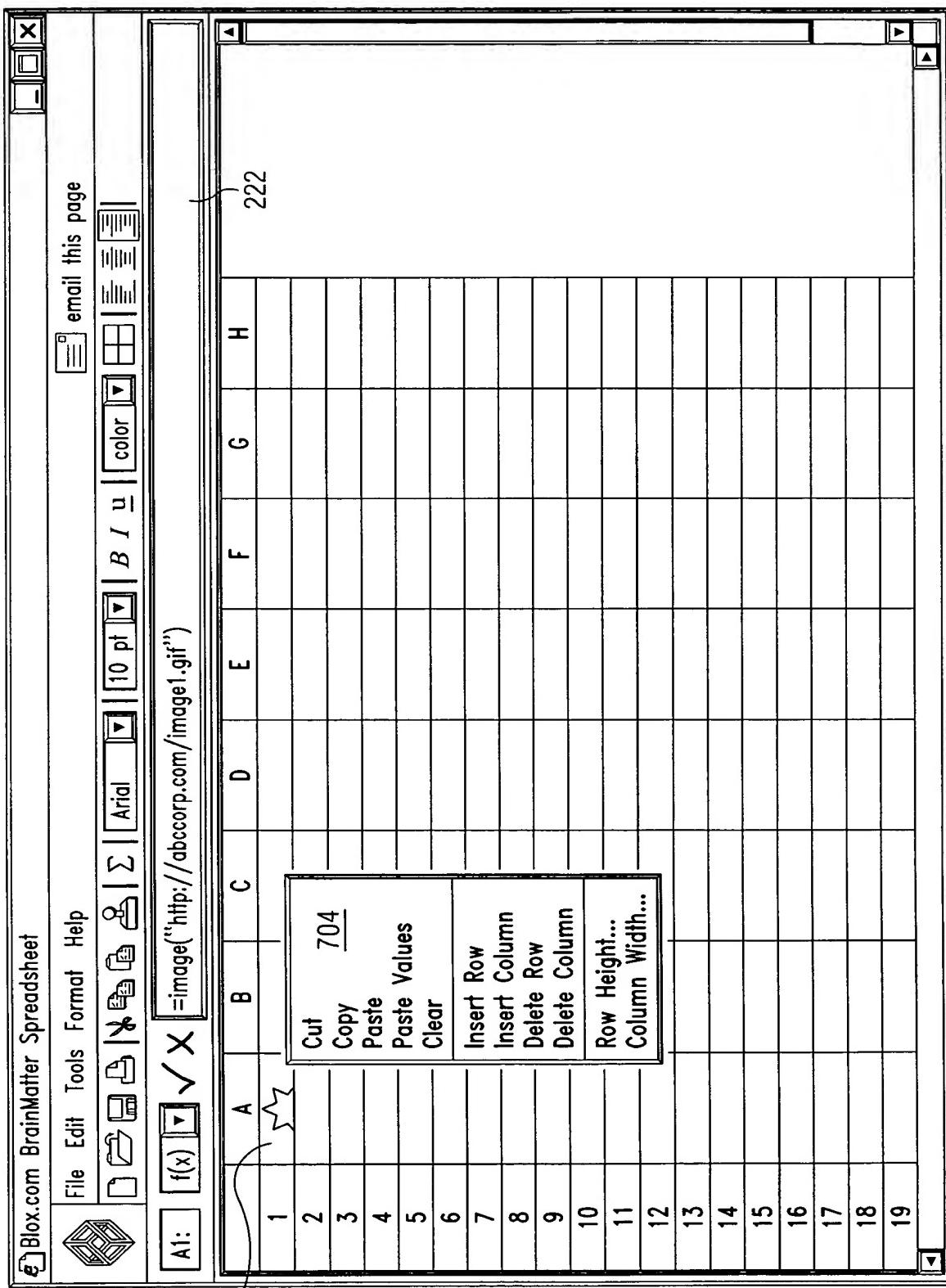


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FIG. 7c



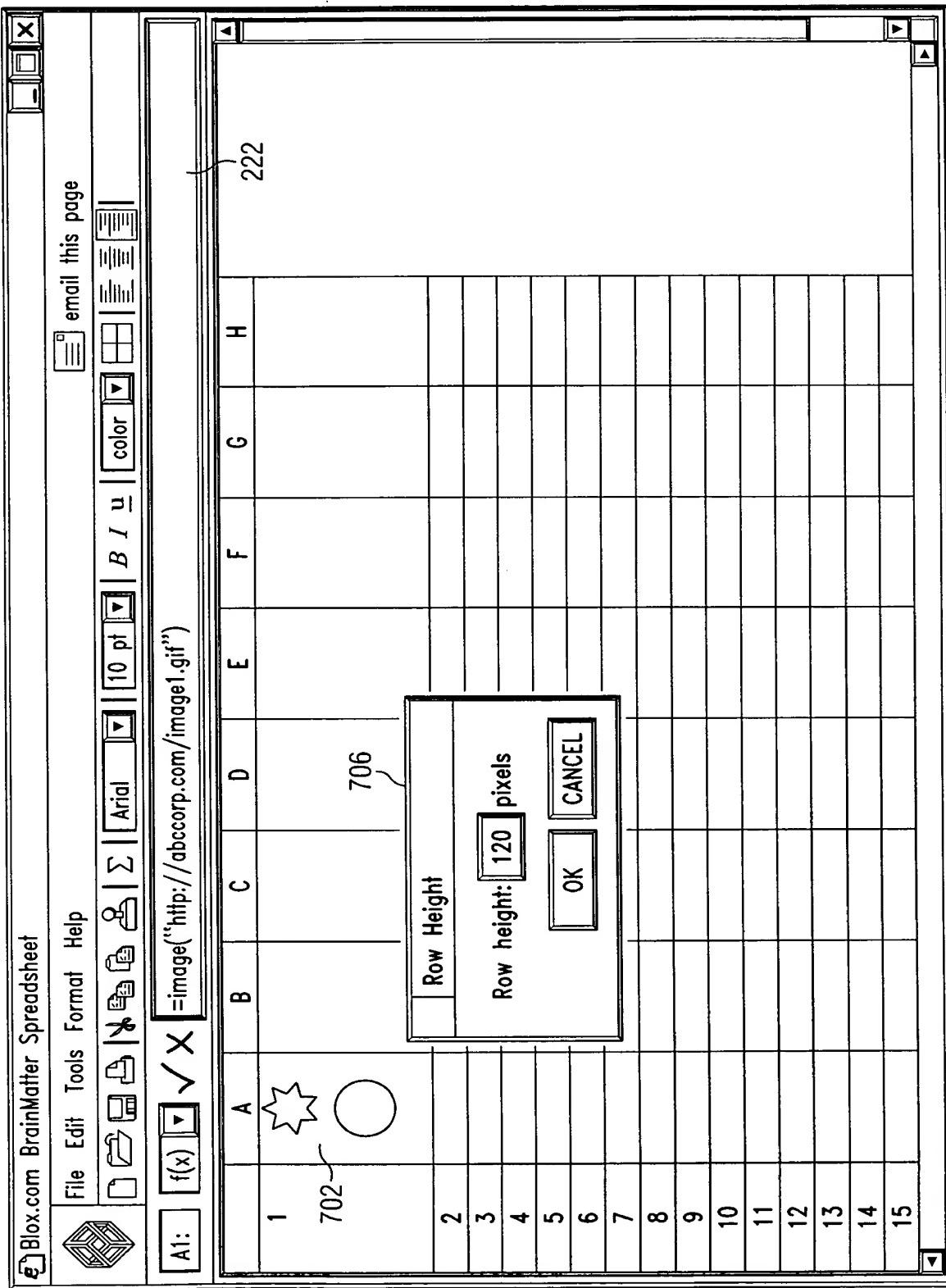
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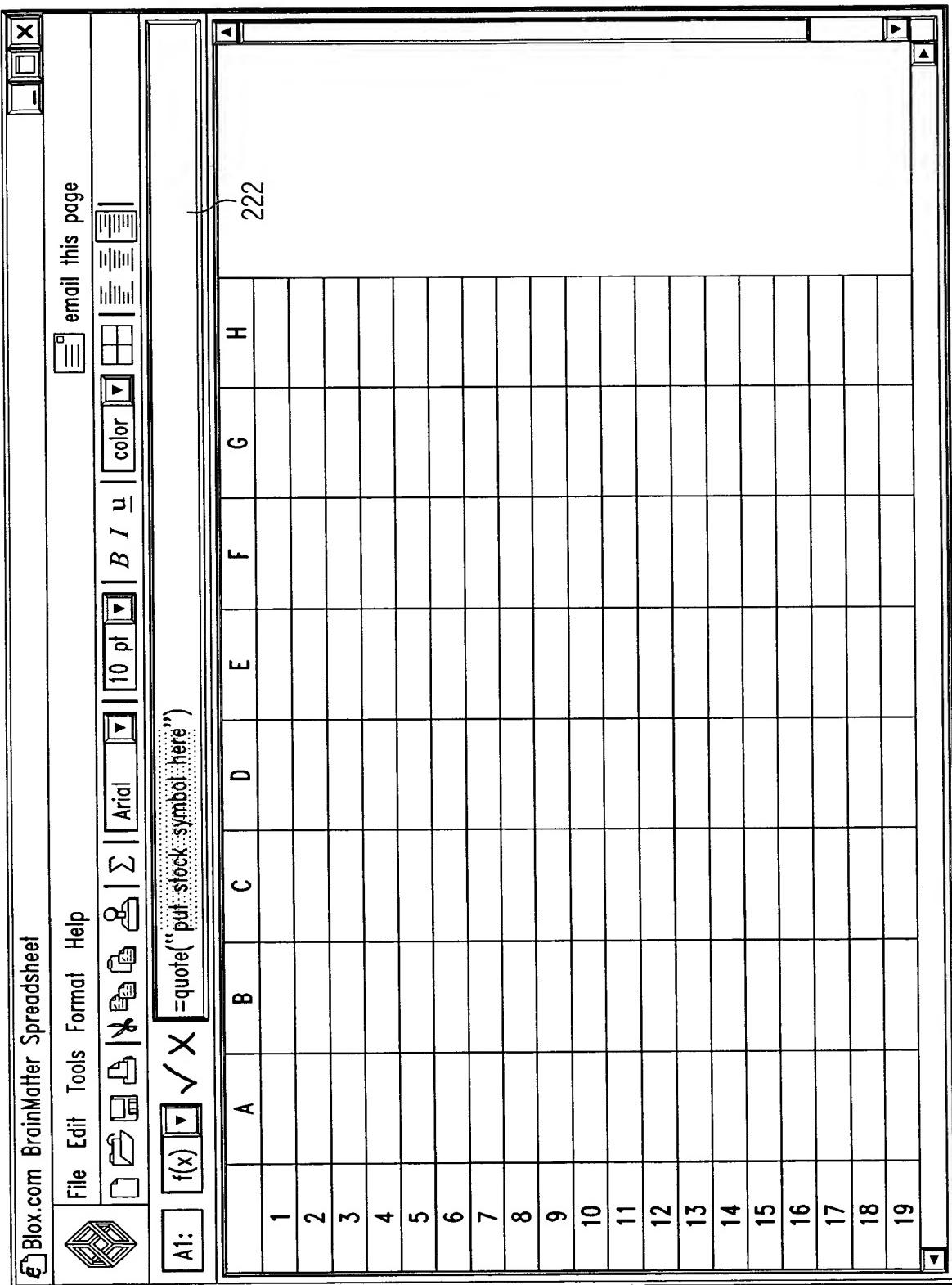
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FIG. 7d



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FIG. 8a



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FIG. 8b

| A  | B         | C | D | E | F | G | H |
|----|-----------|---|---|---|---|---|---|
| 1  | [loading] |   |   |   |   |   |   |
| 2  |           |   |   |   |   |   |   |
| 3  |           |   |   |   |   |   |   |
| 4  |           |   |   |   |   |   |   |
| 5  |           |   |   |   |   |   |   |
| 6  |           |   |   |   |   |   |   |
| 7  |           |   |   |   |   |   |   |
| 8  |           |   |   |   |   |   |   |
| 9  |           |   |   |   |   |   |   |
| 10 |           |   |   |   |   |   |   |
| 11 |           |   |   |   |   |   |   |
| 12 |           |   |   |   |   |   |   |
| 13 |           |   |   |   |   |   |   |
| 14 |           |   |   |   |   |   |   |
| 15 |           |   |   |   |   |   |   |
| 16 |           |   |   |   |   |   |   |
| 17 |           |   |   |   |   |   |   |
| 18 |           |   |   |   |   |   |   |
| 19 |           |   |   |   |   |   |   |

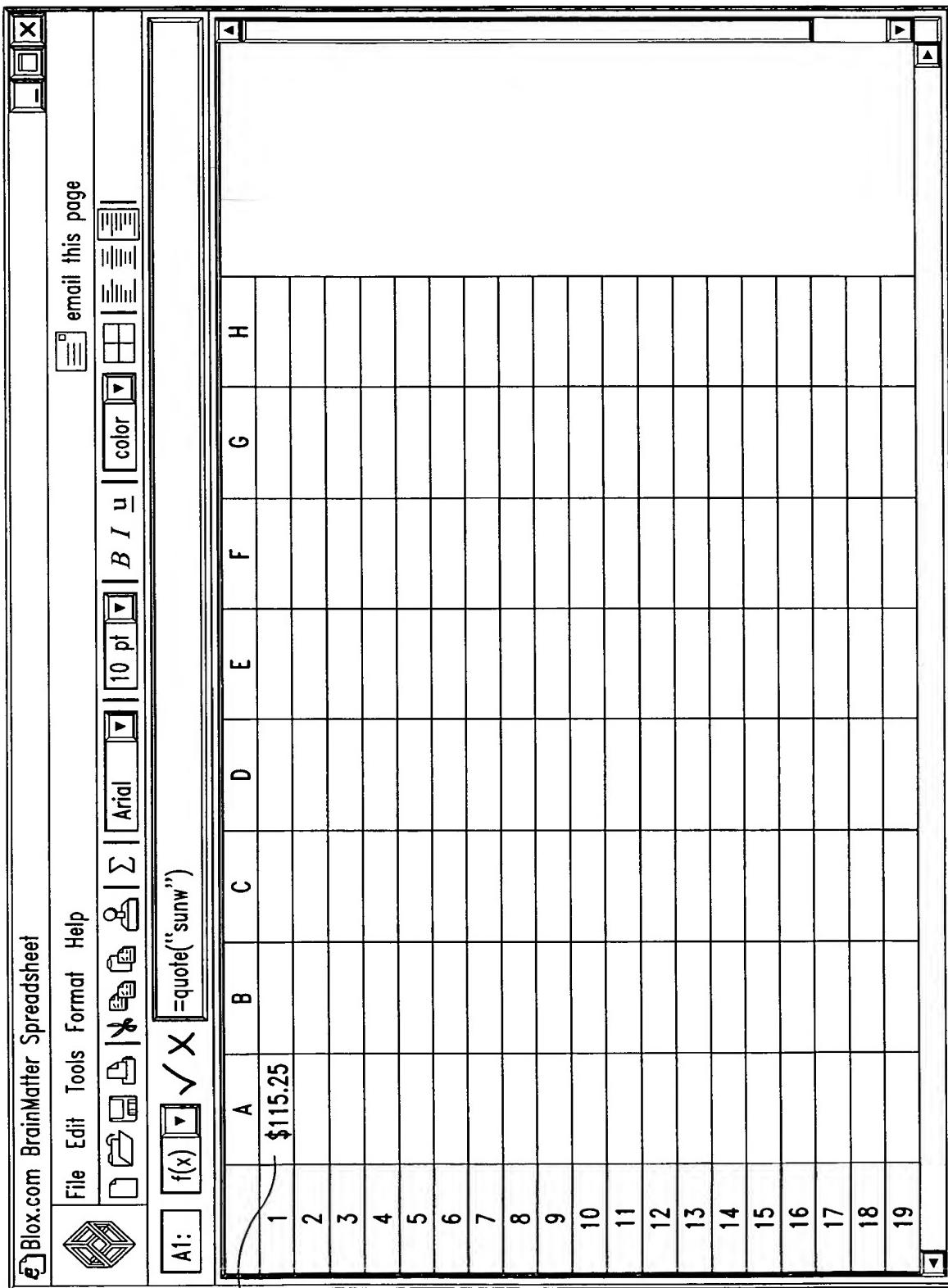
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FIG. 8c

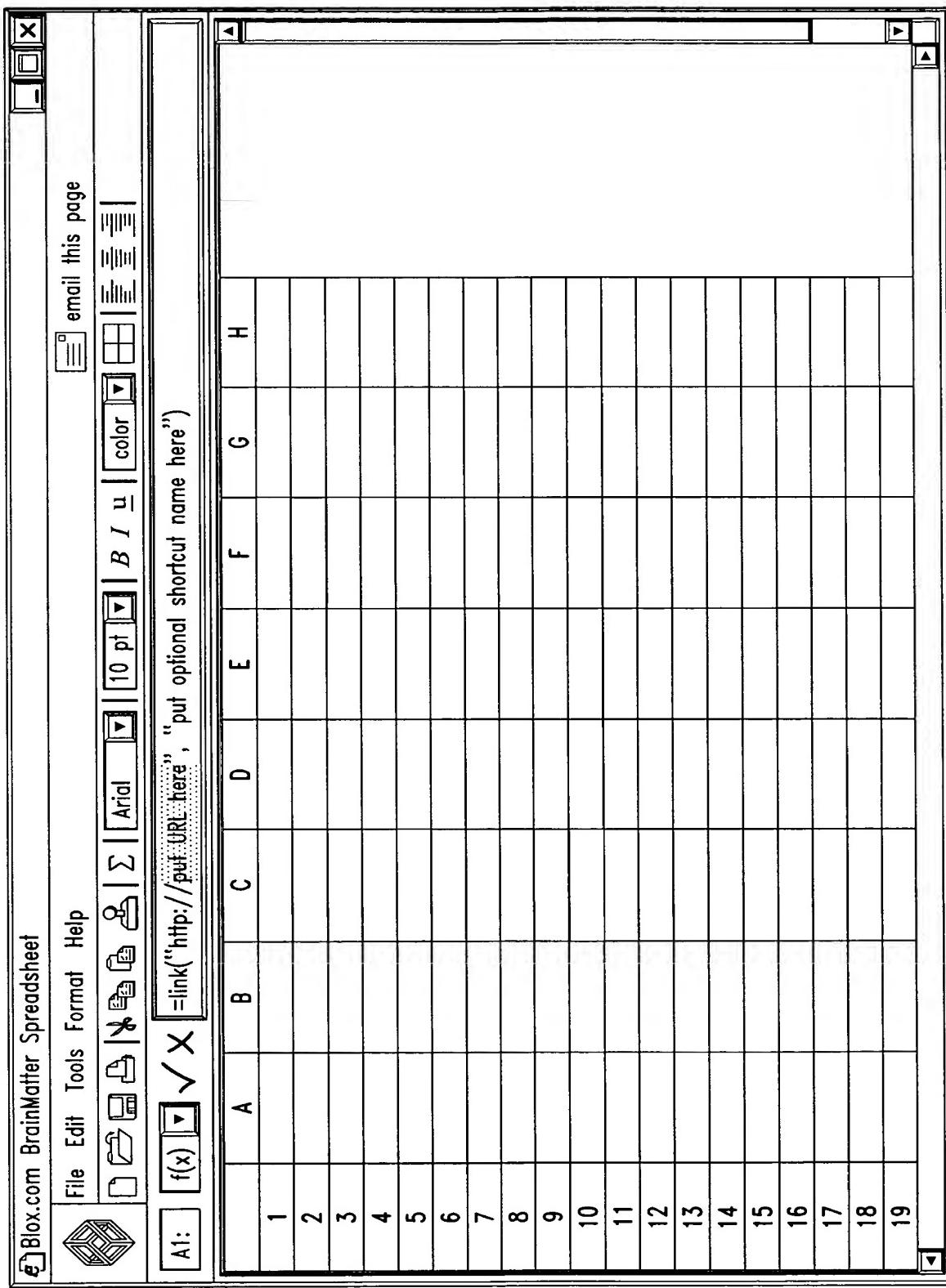


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FIG. 9a

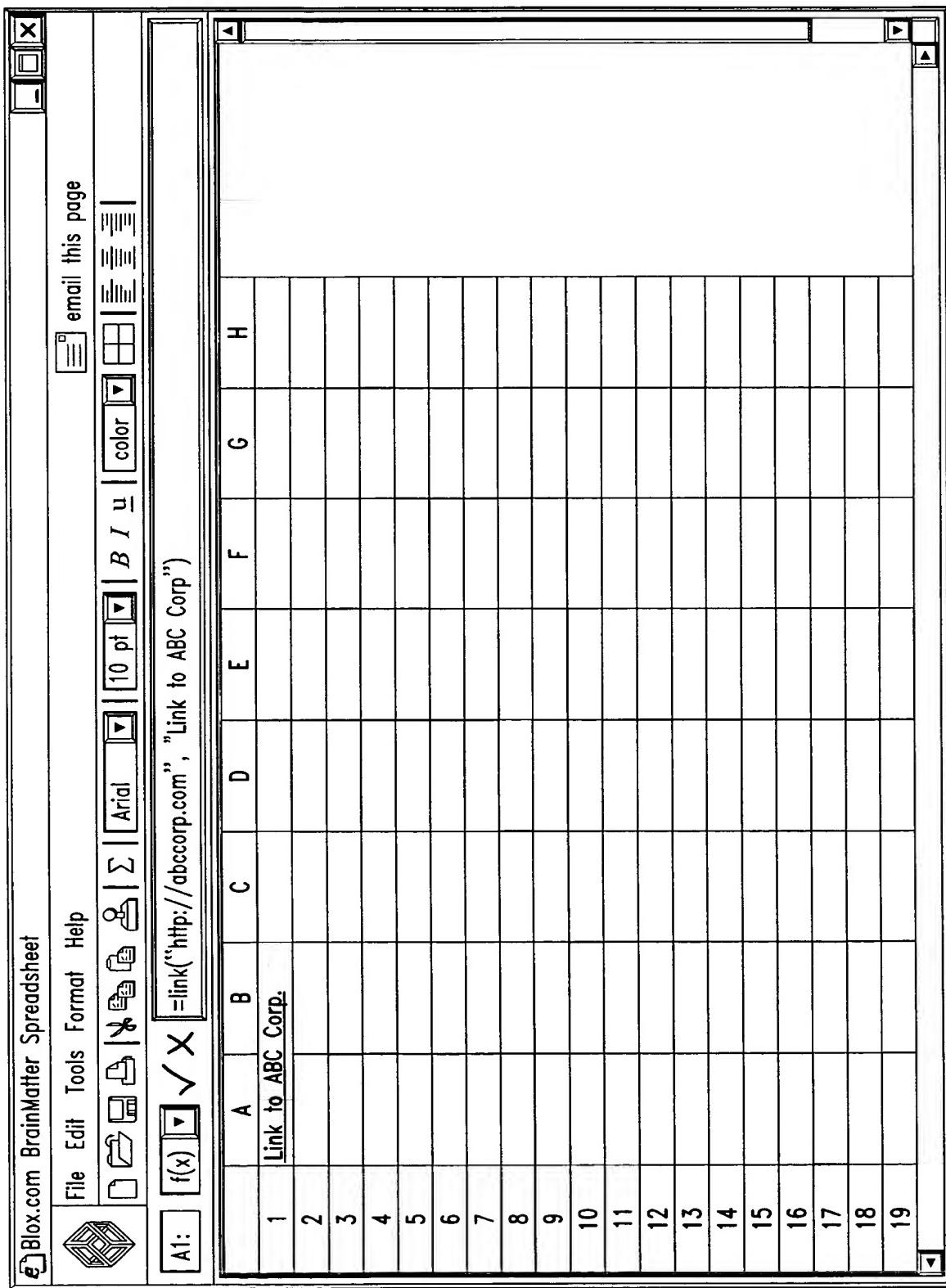


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FIG. 9b



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FIG. 10a

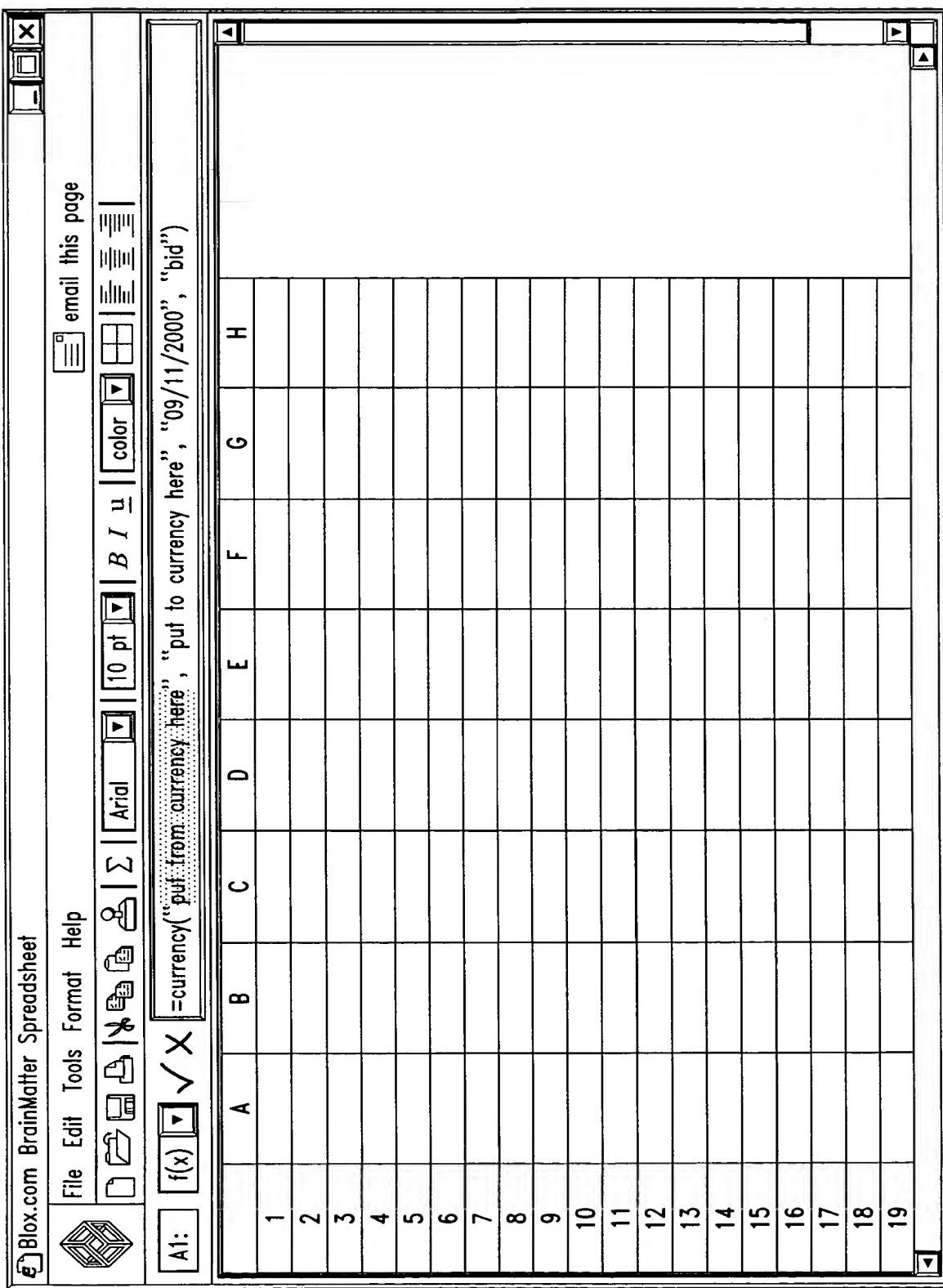
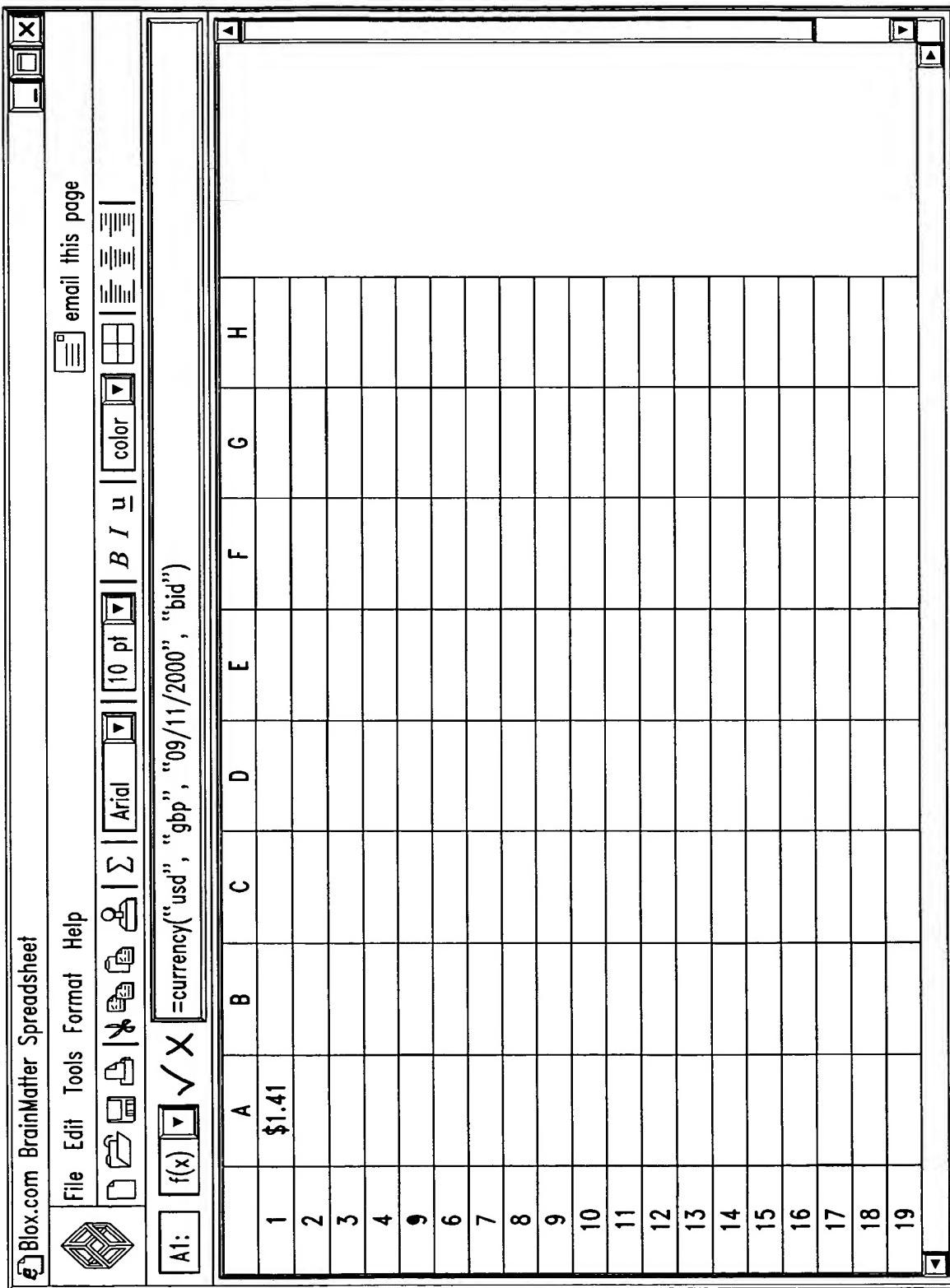


FIG. 10b



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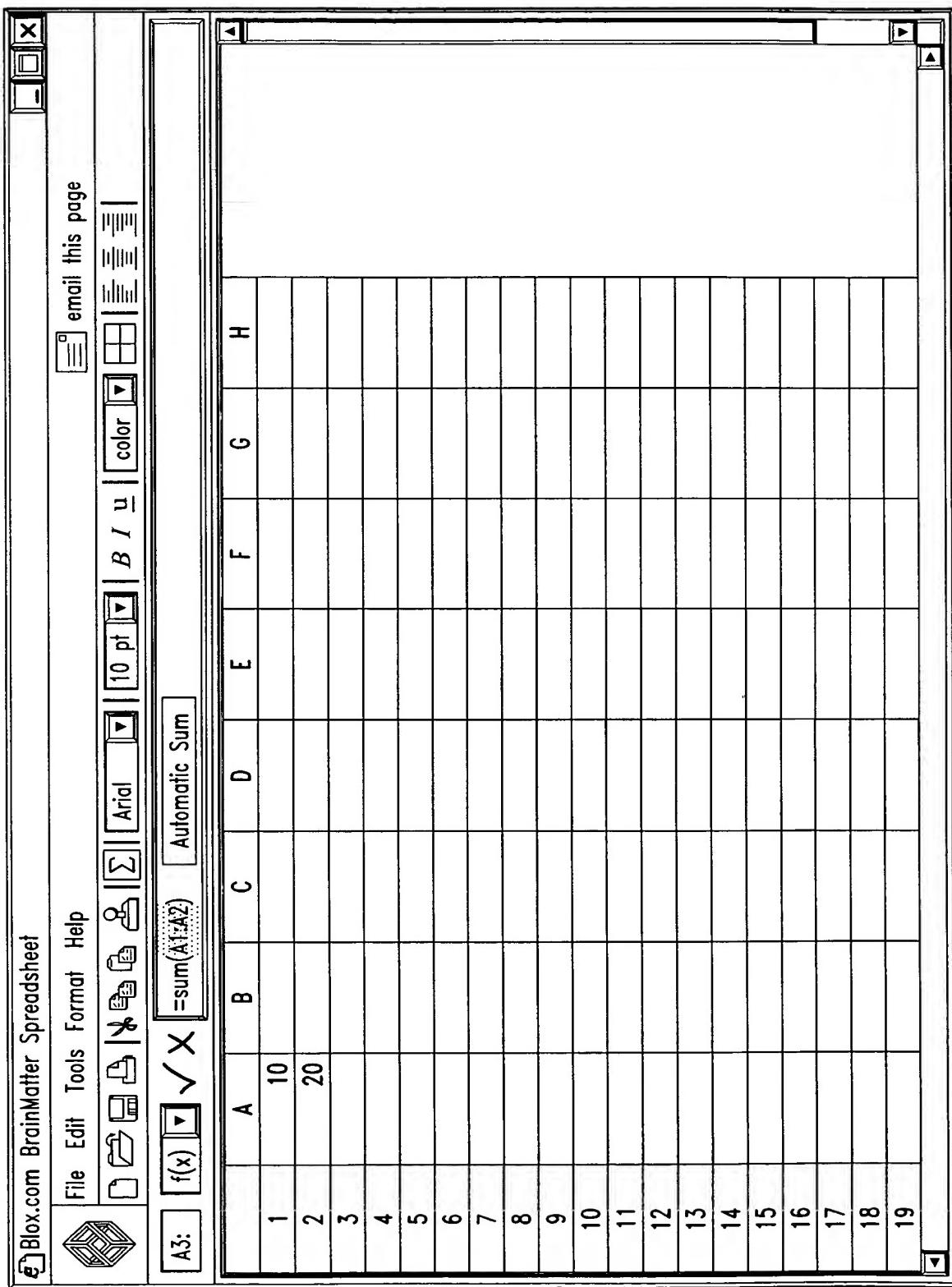
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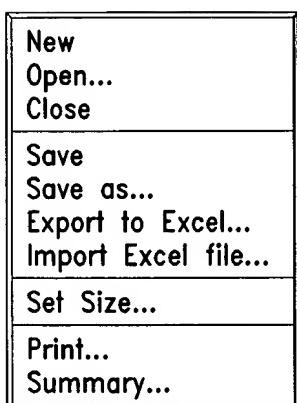
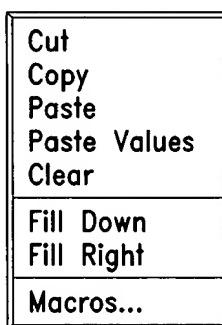
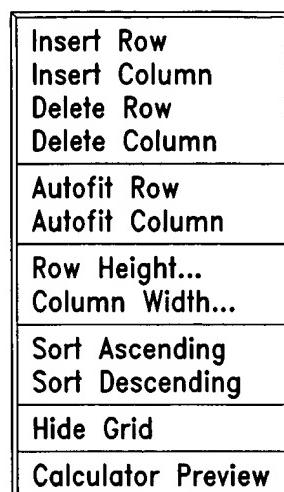
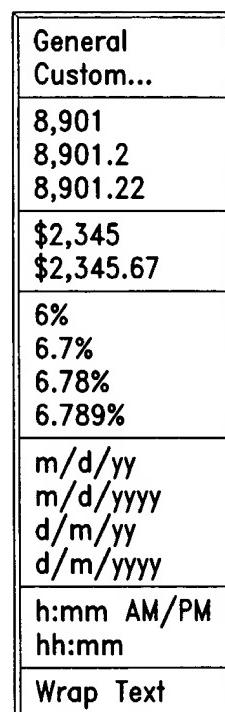
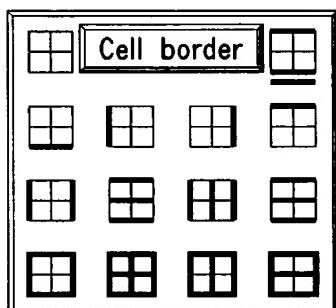
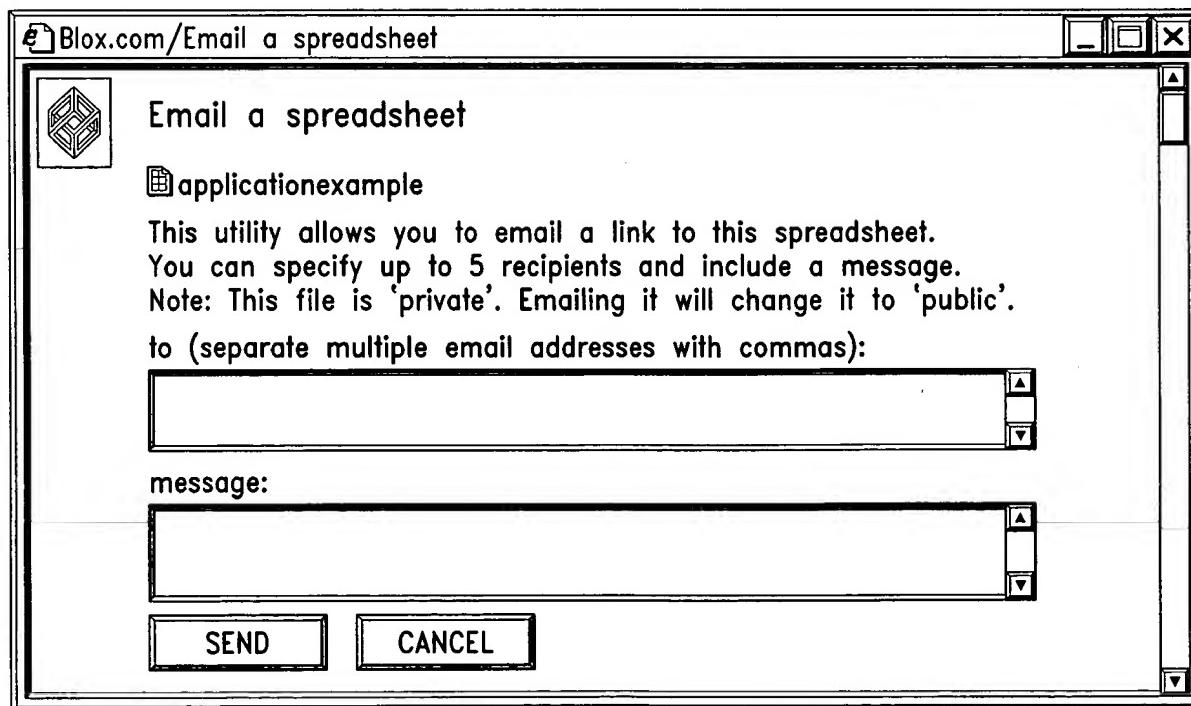
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FIG. 11



| A  | B  | C | D | E | F | G | H |
|----|----|---|---|---|---|---|---|
| 1  | 10 |   |   |   |   |   |   |
| 2  | 20 |   |   |   |   |   |   |
| 3  |    |   |   |   |   |   |   |
| 4  |    |   |   |   |   |   |   |
| 5  |    |   |   |   |   |   |   |
| 6  |    |   |   |   |   |   |   |
| 7  |    |   |   |   |   |   |   |
| 8  |    |   |   |   |   |   |   |
| 9  |    |   |   |   |   |   |   |
| 10 |    |   |   |   |   |   |   |
| 11 |    |   |   |   |   |   |   |
| 12 |    |   |   |   |   |   |   |
| 13 |    |   |   |   |   |   |   |
| 14 |    |   |   |   |   |   |   |
| 15 |    |   |   |   |   |   |   |
| 16 |    |   |   |   |   |   |   |
| 17 |    |   |   |   |   |   |   |
| 18 |    |   |   |   |   |   |   |
| 19 |    |   |   |   |   |   |   |

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**FIG. 12a****FIG. 12b****FIG. 12c****FIG. 12d****FIG. 12e****FIG. 13a**

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FIG. 13b

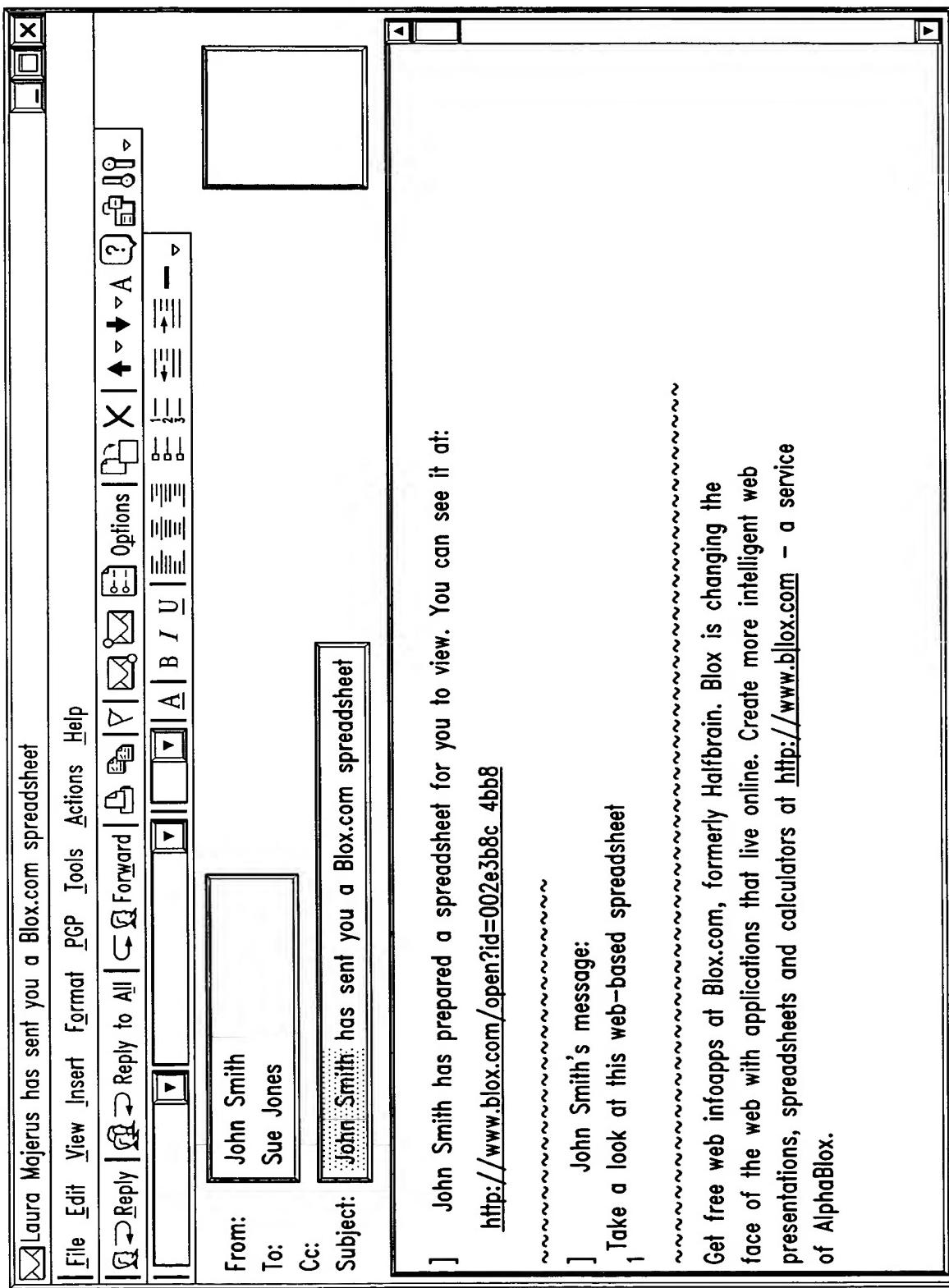


FIG. 14a

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FIG. 14b

Macros

jump to function...

```

var g = new Object () ;
function init ()
{
    g.noteArray = ["A", "A#", "B", "C", "C#", "D", "D#", "E", "F", "F#", "G", "G#", "A"];
    g.flatArray = ["A", "Bb", "B", "C", "Db", "D", "Eb", "E", "F", "Gb", "G", "Ab", "A"];
    g.modeArray =
// blues scale
    1, 0, 0, 1, 0, 1, 1, 1, 0, 0, 1, 0,
// Dorian
    1, 0, 1, 1, 0, 1, 0, 1, 0, 1, 1, 0,
// Harmonic Minor
    1, 0, 1, 1, 0, 1, 0, 1, 1, 0, 0, 1,
// Locrian
    1, 1, 0, 1, 0, 1, 1, 0, 1, 0, 1, 0,
// Lydian
    1, 0, 1, 0, 1, 0, 1, 1, 0, 1, 0, 1,
}

```

OK CANCEL HELP

// theNote: figures out if the current note belongs in the mode,  
// key and scale

```

function TheNote (gstring, fret, key, modeIndex, displayIndex)
{
    var noteName = call.mod (gstring+fret-1, 12);
    var inMode = g.modeArray [modeIndex*12 + call.mod (key+fret-1, 12)];
    if (inMode == 1)
        if (displayIndex == 1)
            return (g.noteArray [noteName]);
        else if (displayIndex == 2)
            return (g.flatArray [noteName]);
        else
            return ("*");
    else
        return ("");
}

```

OK CANCEL HELP

FIG. 14c

The screenshot shows a spreadsheet application window titled "BrainGuitar-Blox.com BrainMatter Spreadsheet". The menu bar includes File, Edit, Tools, Format, Help, and various icons for file operations like Open, Save, Print, and Undo.

On the left, there are two columns of buttons:

- Top row: **E7:**, **f(x)**, **▼**, **✓ X**, **Show sharps**, **1**, **Show flats**, **2**, **Show symbol**, **3**.
- Bottom row: **BrainGuitar**, **Display: Show flats**, **Mode: Blues Scale**, **▼**, **Key: E**, **▼**.

The main content area contains two tables:

|    | A   | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2  | Modes, Keys and Notes on the guitar fretboard (Inspired by J. Walkenbach's XL Guitar) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6  | string tuning   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | E   | ▼ | E |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8  | B   | ▼ | B |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9  | G   | ▼ | G |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 | D   | ▼ | D |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11 | A   | ▼ | A |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12 | E   | ▼ | E |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

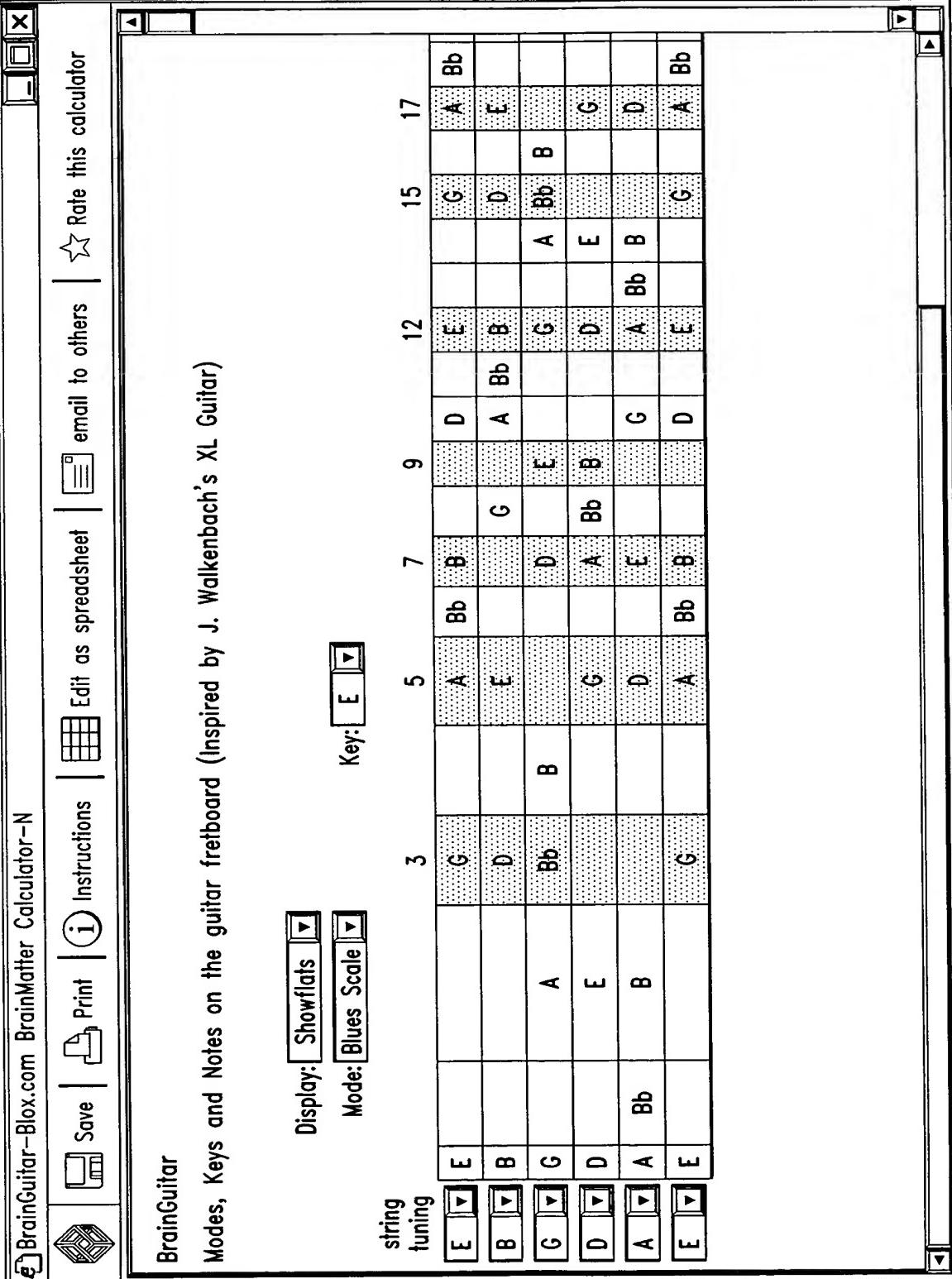
The first table has 26 columns labeled A through Z, representing the notes on a guitar fretboard. The second table lists modes and keys corresponding to the strings, with rows numbered 1 through 13.

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FIG. 14d



The screenshot shows a software window titled "BrainGuitar-Blox.com BrainMatter Calculator-N". The menu bar includes "File", "Save", "Print", "Instructions", "Edit as spreadsheet", "email to others", and "Rate this calculator". The main area displays a guitar fretboard diagram for "J. Walkenbach's XL Guitar". The fretboard has 17 frets and 6 strings. The strings are labeled E, B, G, D, A, and E from bottom to top. The notes are indicated by letters: C, Bb, B, A, Bb, B for the 3rd string; E, D, C, Bb, B, A for the 2nd string; G, F, E, D, C, Bb for the 1st string. The notes are grouped into modes: Blues Scale (E, Bb, B, A, Bb, B) and Showflats (E, Bb, B, A, Bb, B). The key signature is shown as E. The display mode is set to "Showflats". The software also includes a "Blues Scale" button.

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FIG. 15

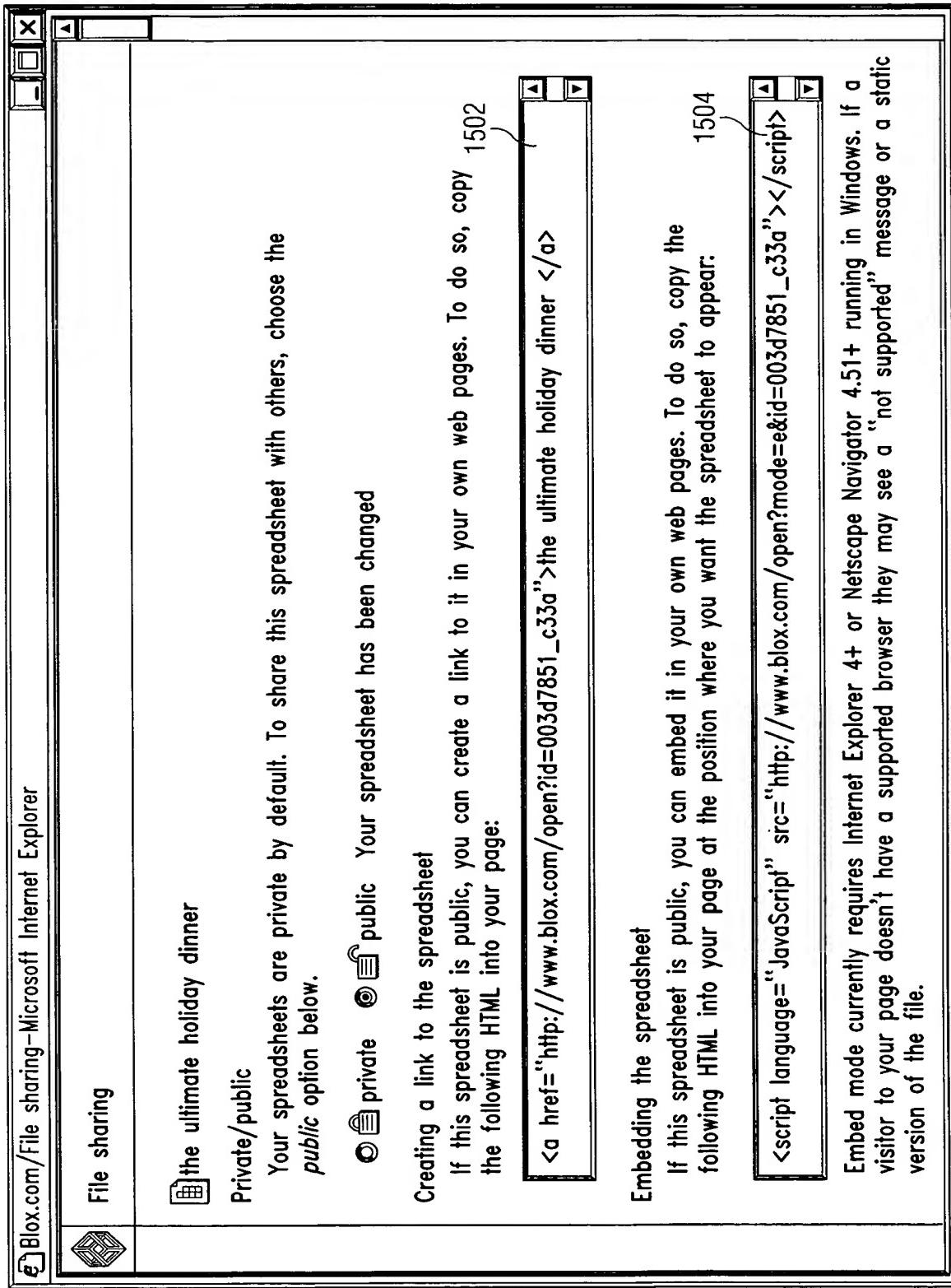


FIG. 16a

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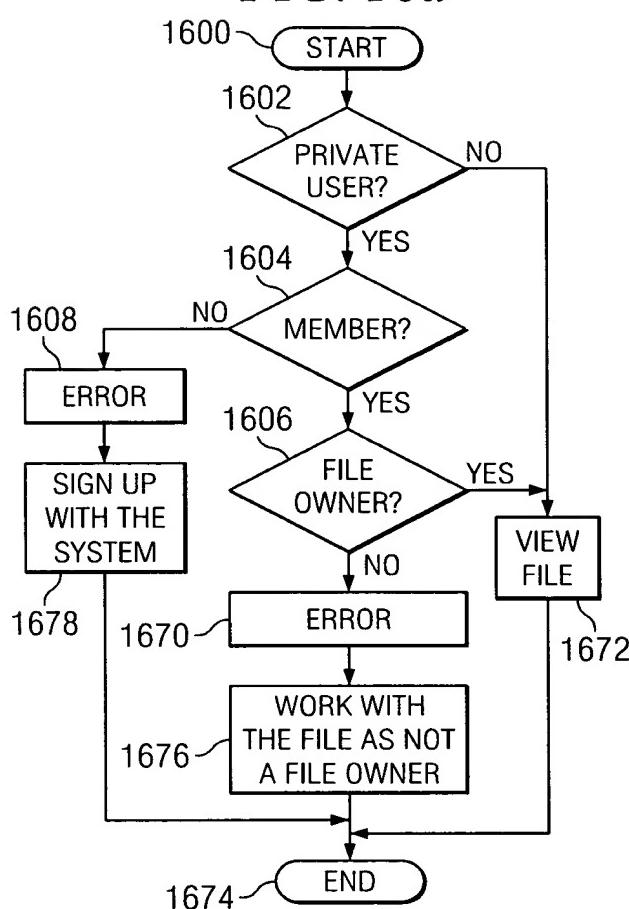
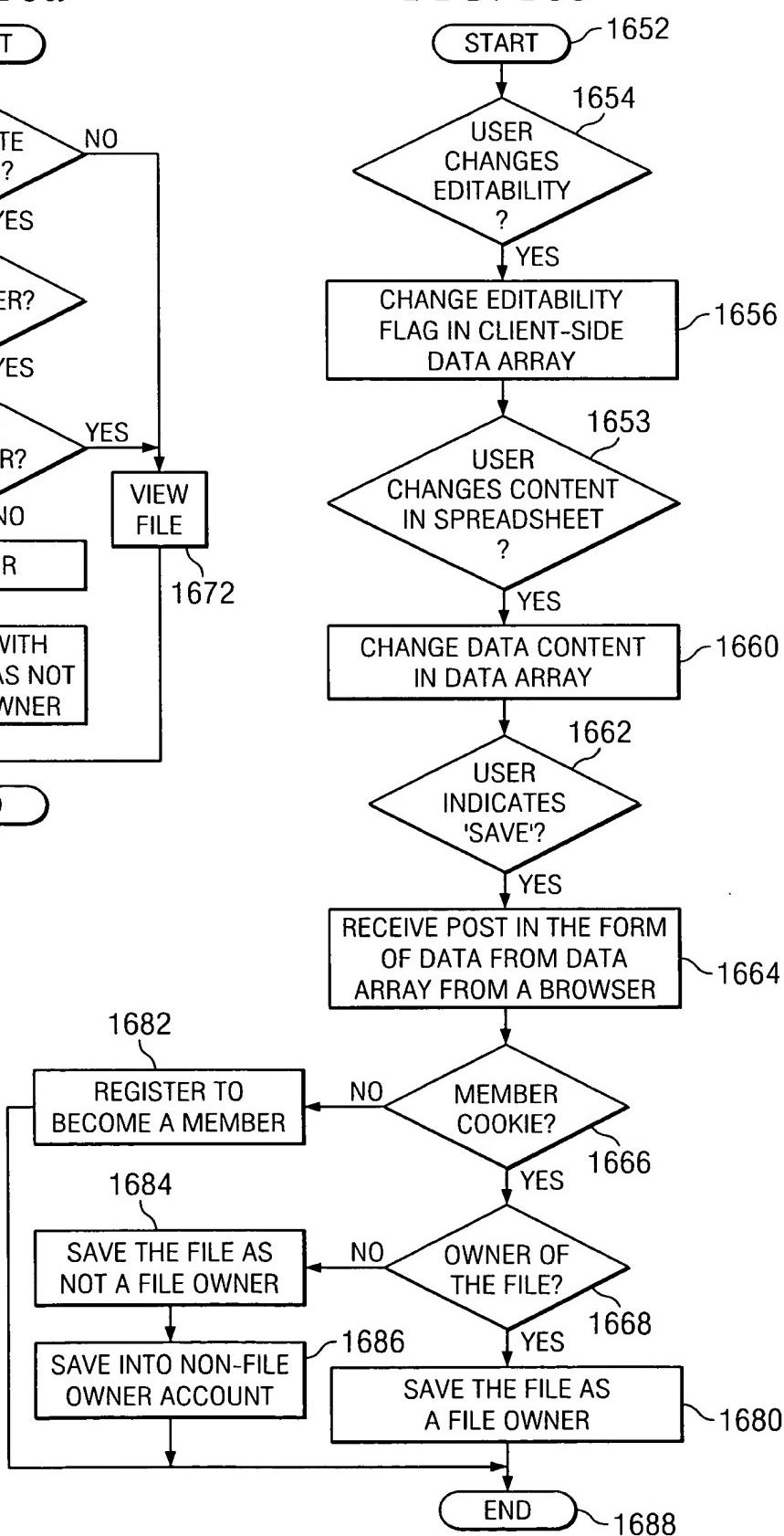


FIG. 16b

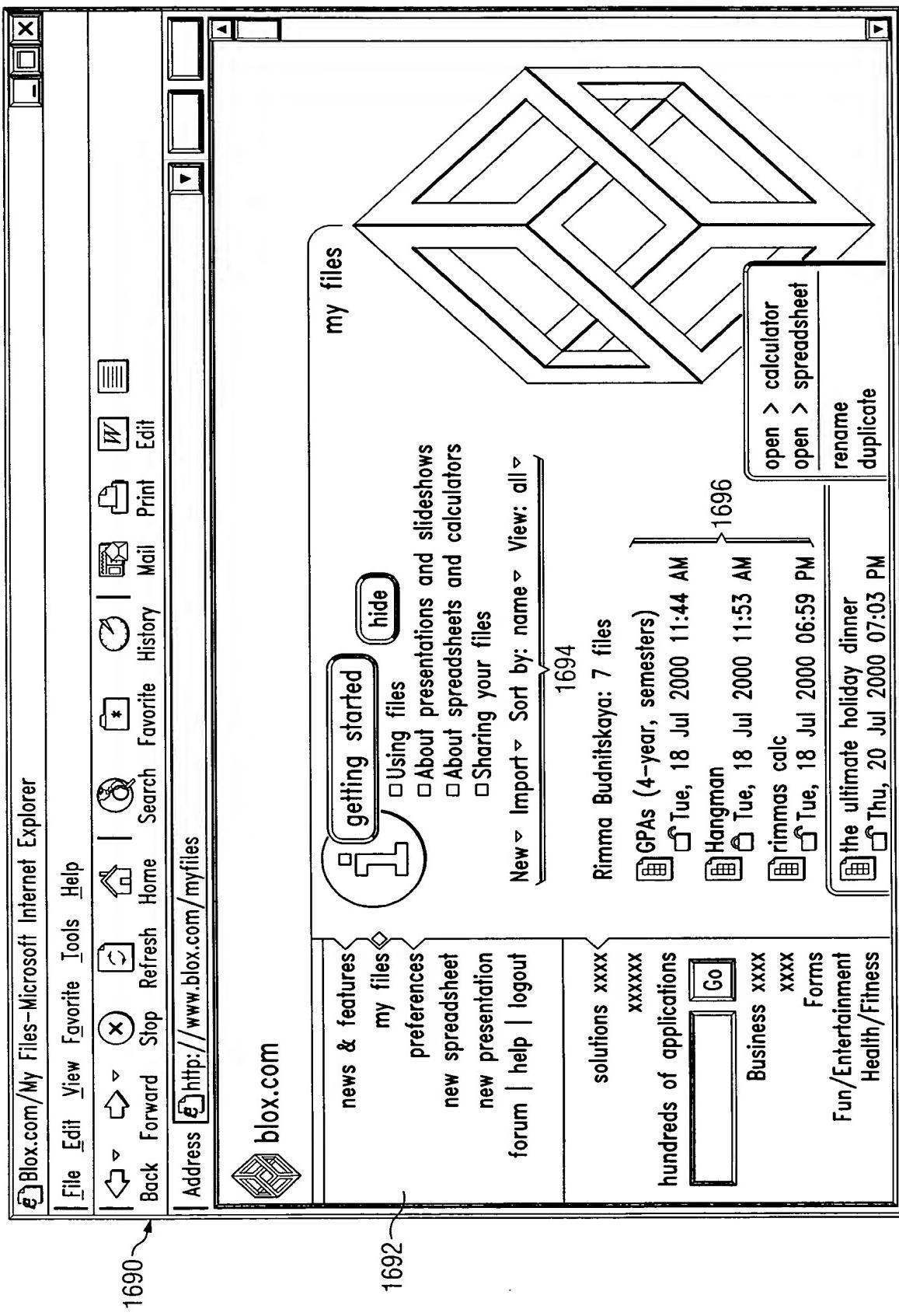


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FIG. 16C



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FIG. 17a

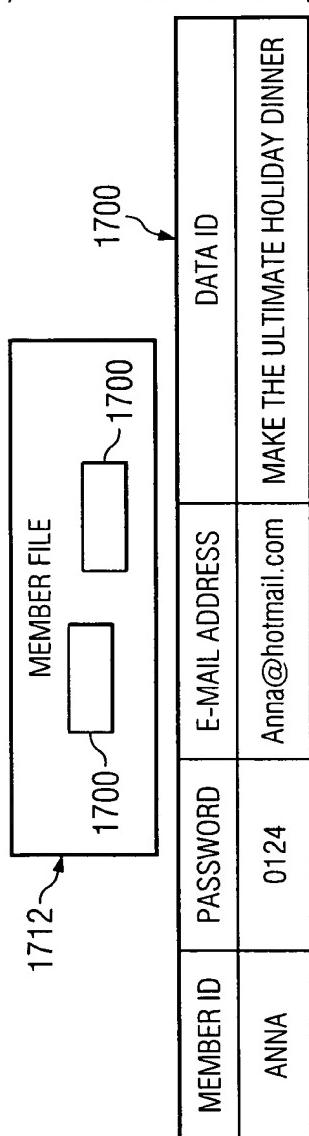


FIG. 17b

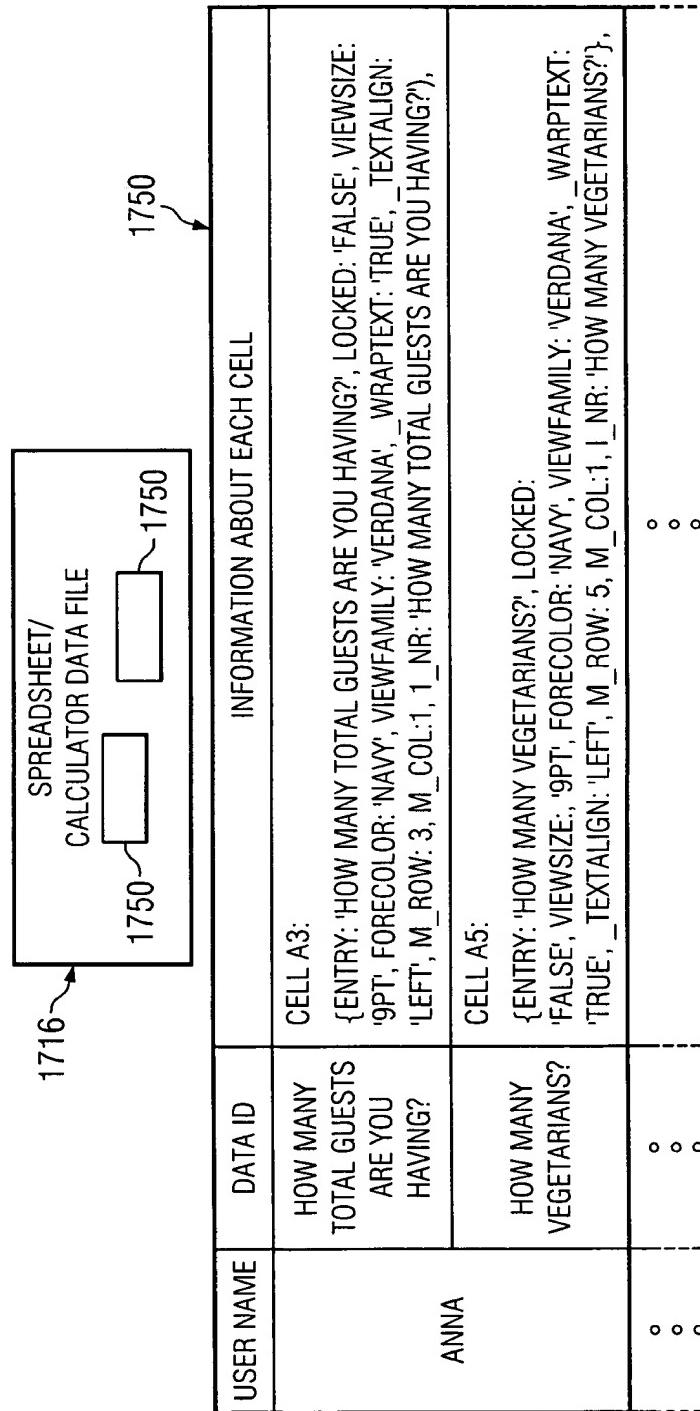


FIG. 18

